

## **ABSTRACT**

A wireless earphone with alternating extension and retraction functions is described. The earphone has adjustable connection lengths between an amplifier and a housing, a microphone and the housing respectively, and includes a housing having  
5 a earpiece, an amplifier, a first connection member capable of being alternately extended from and retracted into the housing, a microphone, and a second connection member capable of being alternately extended from and retracted into the housing and opposing the first connection member. The first connection member electrically connect the amplifier and the housing, while the second connection member  
10 electrically connects the microphone and the housing. The wireless earphone is applicable to alternating extension and retraction and has multiple functions, wide application and high efficiency.